(19) World Intellectual Property Organization

International Bureau



A HERRI BANKAN IN DIGIND ITAK OLUH BUDIK BINI ITIN DIK BUNCA BANDI KADA DIRIB BINA BINI BURUK DISI KADI KADI

(43) International Publication Date 7 July 2005 (07.07.2005)

PCT

(10) International Publication Number WO 2005/061932 A1

(51) International Patent Classification⁷: F04D 29/16

F16J 15/44.

(21) International Application Number:

PCT/JP2004/017228

(22) International Filing Date:

12 November 2004 (12.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2003-425455 2004-074828

22 December 2003 (22.12.2003) JP 16 March 2004 (16.03.2004) JP

(71) Applicant (for all designated States except US): EBARA CORPORATION [JP/JP]; 11-1, Haneda Asahi-cho, Ohta-ku, Tokyo, 1448510 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): ITO, Shoji [JP/JP]; c/o Ebara Corporation, 11-1, Haneda Asahi-cho, Ohta-ku, Tokyo, 1448510 (JP). KAWABATA, Junya [JP/JP]; c/o Ebara Corporation, 11-1, Haneda Asahi-cho, Ohta-ku, Tokyo, 1448510 (JP).

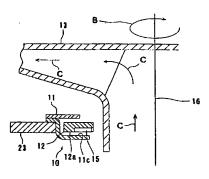
- (74) Agents: WATANABE, Isamu et al.; GOWA Nishi-Shin-juku 4F, 5-8, Nishi-Shinjuku 7-chome, Shinjuku-ku, Tokyo, 1600023 (JP).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with amended claims

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SEAL MECHANISM FOR FLUID MACHINE



(57) Abstract: A seal mechanism (10) can reduce noise during operation. The seal mechanism (10) is used for a fluid machine (P) to prevent a fluid from leaking out of a high-pressure space (H) into a low-pressure space (L) in the fluid machine (P). The seal mechanism (10) has an annular seal member (12) movable in a radial direction and a housing (11) disposed between a body (23) of the fluid machine (P) and a rotatable member (22) located inside the body (23) of the fluid machine (P) so as to receive the annular seal member (12). The annular seal member (12) has a first surface (12a) on a side of the low-pressure space (L) in the fluid machine (P). The housing (11) has a second surface (11c) facing the first surface (12a) of the annular seal member (12). The seal mechanism (10) has one or more passages (15) formed in the first surface (12a) and/or the second surface (11c).